

What is claimed is:

1. A vehicle body panel structure, comprising:
an outer panel;
an inner panel facing the outer panel; and
5 a trim of a cabin interior,
wherein at least one surface of a back surface of the outer panel, both
surfaces of the inner panel, and a surface of the trim facing the outer panel has
both functions of heat insulation and heat dissipation by partially providing a heat
insulation section to insulate heat for the at least one surface.
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2. A vehicle body panel structure according to claim 1,
wherein the function of heat insulation by the heat insulation section is
given to an upper part of the at least one surface.
- 15 3. A vehicle body panel structure according to claim 1,
wherein a heat dissipation section which facilitates dissipation of heat is
provided for at least a part other than a portion which is insulated by the heat
insulation section.
- 20 4. A vehicle body panel structure according to claim 1,
wherein the heat insulation section is constituted by attaching a low
emissivity film having a low emissivity in a far-infrared region with an adhesive.
5. A vehicle body panel structure according to claim 4,
25 wherein the low emissivity film includes at least one selected from a
group consisting of an aluminum foil, a copper foil, an aluminum foil with a
surface protected by a transparent resin layer, a copper foil with a surface
protected by a transparent resin layer, a resin film with aluminum adhered thereto,
a resin film with a reflective coating material applied thereto, and a resin film
30 with a reflector and/or white pigment mixed therein.

6. A vehicle body panel structure according to claim 1,
wherein the heat insulation section is constituted by painting a coating
material which reduces emissivity of a painted surface in a far-infrared region.
- 5 7. A vehicle body panel structure according to claim 6,
wherein the coating material includes aluminum flakes.
8. A vehicle body panel structure according to claim 1,
10 wherein the heat insulation section is constituted by attaching a heat
insulator sheet.
9. A vehicle body panel structure according to claim 8,
wherein the heat insulator sheet includes at least one selected from a
15 group consisting of a foamed resin sheet, a non-woven fabric, and a web.
10. A vehicle body panel structure according to claim 1,
wherein a border between a section given the function of heat insulation
and a section given the function of heat dissipation is in a width between 15 cm
20 above and below a border line connecting points at which tangent lines on a front
surface of the outer panel and the ground form 90 degree angles.
11. A vehicle body panel structure according to claim 10,
wherein in a case where there are a plurality of the border lines, the
25 border line closest to the ground is used as a base line to determine the border
between the section given the function of heat insulation and the section given the
function of heat dissipation.
12. A vehicle body panel structure according to claim 3,
30 wherein the heat dissipation section is constituted by providing a

ventilation hole in a lower part of the trim.

13. A vehicle body panel structure according to claim 12,
wherein the ventilation hole as the heat dissipation section is further
5 provided in the inner panel.

14. A vehicle body panel structure according to claim 3,
wherein the heat dissipation section is constituted by a coating which
gives not less than 0.7 of emissivity of a coated surface in a far-infrared region.
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15. A vehicle body panel structure according to claim 14,
wherein a coating material applied in the coating includes a high
emissivity material composed of at least one selected from a group consisting of
zirconium oxide, alumina, zircon, titania, aluminum titanate, cordierite, and
15 aluminum silicate.

16. A vehicle body panel structure according to claim 3,
wherein the heat dissipation section is constituted by having the trim
which includes a good heat conductive material.
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17. A vehicle body panel structure according to claim 16,
wherein the good heat conductive material is constituted of at least one of
a metallic fiber, a carbon fiber, and a composite material including these fibers.

25 18. A vehicle body panel structure according to claim 16,
wherein the good heat conductive material has one of a sheet shape and a
net shape.

19. A vehicle body panel structure according to claim 18,
30 wherein the good heat conductive material is included in the trim by

using an insert molding.

20. A vehicle body panel structure, comprising:

an outer panel;

5 an inner panel facing the outer panel; and

a trim of a cabin interior,

wherein at least one surface of a back surface of the outer panel, both
surfaces of the inner panel, and a surface of the trim facing the outer panel has
both functions of heat insulation and heat dissipation by partially providing a heat
10 insulation means for insulating heat for the at least one surface.